SUBJECT INDEX

Vol. 143A, Nos. 1–4

Abalone, 299
Abdominal fat, 400
ABR, 286
Acclimation, 173
Acid-base, 368
Acidosis, 368
Acute exhaustive exercise, 239
Adrenal, 202
β-3_b adrenoreceptor, 162
Adrenoceptor antagonists, 254
Air breathing, 142
Alligator mississippiensis, 368
Altricial bird, 50
Amino acid, 279
Amino acid catabolic enzymes, 89
Amino acid transport, 184
Aminopeptidase, 184
Anguilla, 234
Anion exchange, 521
Antioxidant, 149, 429
Antioxidants, 492
Apex cardiogram, 326
Apparent digestibility, 125
Aquaporins, 269
Arginine, 218
Arginine vasotocin, 202
Arterial blood gases, 368
Arterial pressure, 103
Asian carp, 286
Astaxanthin, 125
Atlantic salmon, 125
Atrial natriuretic peptide, 193
Audiogram, 286
Avian, 103

Baroreflex, 103
Bio-acoustics, 286
Bipectinate gills, 299
Bird, 326
Birds, 269
Birds of prey, 78
Blood chemistry, 62
Blood oxygen affinity, 173
Blood oxygen carrying capacity, 459
Blood pressure, 103
Blood profile, 50
Blood respiratory properties, 173
Blueberries, 429
Body condition, 62
Body protein concentration, 315
Broiler chicken, 400

Ca^{2+}, 361
Calcium, 417
Calcium affinity, 228
Calcium-binding protein, 228
Calf, 97
Camel, 502
Canthaxanthin, 125
Carbohydrates utilization, 89
Cardiac cycle, 326
Carotenoids, 149
Carp, 361
Catalase, 239
Catecholamine, 254
Catecholamines, 162, 375
Catfish, 361
cDNA, 307
cGMP, 193
Chanos chanos, 406
Chaperone, 133
Chemoreflex, 332
CHH, 155
Chick, 112
Chicken, 269, 326, 382
Chinese skink, 506
Cl^-/HCO_3^- exchange, 521
Cloning, 340
Clotting time, 477
Coal fly ash, 353
Cold, 279
Cold shock, 254
Cold stress, 492
Coleoptera, 279
Collagen, 133
Concanamycin, 24
Condition, 50
Conservation, 149
Controlled feeding trials, 467
Core body temperature, 42
Corticosterone, 112, 400
Corticotrophin-releasing factor, 112
Cortisol, 97, 162, 375
Costs of tail autotomy, 506
Creatine kinase, 429
Crested caracara, 78
Crocodile, 340
Crocodilian, 486
Crustacea, 67, 246
Crustacean, 155, 477
Crustacean hyperglycemic hormone, 246
C-type natriuretic peptide, 193

Dehydration, 502
Development, 133, 382, 400
Dicentrarchus labrax, 375
Diet, 400
Dietary macronutrients, 467
Dietary protein, 184
Diet–tissue isotope discrimination factors, 467
Differential haemocyte counts, 477
Diffusion limitation, 299
Digital motion analysis, 332
Dinitrophenol, 24
Divalent metal transporter (DMT1), 292
Dopamine, 254
Drinking, 521

Ear, 286
Early embryonic development, 512
EF-hand protein, 228
Egg yolk, 149
Elasmobranch, 521
Eleocytes, 55
ELISA, 55
Embryos, 382
EMG, 389
Emydura signata, 173
Endurance training, 239
Energy, 12
Energy stores, 506
Eremias brenchleyi, 118
Erythrocyte, 162
EST, 155
Estradiol-17β, 55
Estrogen receptor α, 340
Eumeces chinensis, 506
European sea bass, 89
Euryhaline teleost, 406
Evoked potential, 286
Evolution, 299, 340
Exendin-4, 85
Exercise, 347, 368, 429
Expression, 246, 307
Eyestalk, 155
Eyestalkless, 254

doi:10.1016/S1095-6433(06)00154-1

Falco, 62
Farnesoic acid *O*-methyltransferase, 155
Feeding, 112
Fibrillin, 417
Field study, 42
Fish, 286, 332, 347, 435
Fish nutrition, 89
Flagella, 361
Flushing colours, 78
Food assimilation, 118
Food-forward release, 85
Forestomach, 502

Gastrointestinal tract, 269
Gender, 279
Gene expression, 435, 512
Genomic organization, 307
Ghrelin, 97
Gila Monster, 85
Gill, 406
Gilthead sea bream, 375
Glucagon, 97
Glucagon-like peptide-1, 112
Gluconeogenic enzymes, 89
Glucose, 97, 347
Glutathione peroxidase, 239
Glutathione reductase, 239
Glutathione *S*-transferase, 239
Glycated hemoglobin, 62
Glycolytic enzymes, 89
Goby, 361
Growth, 382
Growth hormone, 512
Growth rate, 62

Haematology, 347
Haemocytes, 477
Haemoglobin, 78
Haliotis iris, 299
Harbor seals, 467
Head kidney, 375
Hearing, 286
Heart, 239, 326
Heart rate, 103
Heat production, 382
Heat shock, 133
Heat shock proteins, 435
Heloderma suspectum, 85
Hemodynamics, 103
Herring, 467
Hooded vulture, 78
Hormone, 155
HSF, 435
Hsp70, 435
Humoral immunity, 486
Hydrostatic pressure, 234
Hyperglycemia, 254
Hyperosmotic, 447
Hypersalinity, 447
Hypoosmotic, 447
Hyposaline, 447
Hypoxia, 332
Hypoxia inducible factor, 492

IL-1β, 307
Ileum, 269
Immunity, 477
Immunology, 486
Incubation temperature, 512
Innate immunity, 486
Insect, 279
Insects, 24
Insulin, 97
Insulin-like growth factor, 512
Intermediary metabolism, 89
Intestinal adaptation, 184
Intestinal fluid absorption, 211
Intestinal hypertrophy, 211
Intestine, 292, 447
Inverse dynamics, 389
Ion regulation, 67
Ionoregulation, 447
Iron bioavailability, 292
Isoprostanes, 429
Isotope ratios, 467

Japanese quail, 202
Jejunum, 184, 269

Kidney, 193, 269

Lacertidae, 118
Lactate, 347
Lactating cow, 97
Left ventricle, 326
Life span, 12
Lipid metabolism, 382
Lipogenesis, 35
Lipogenic enzymes, 89
Liver, 125
Lobster, 477
Locomotor performance, 506
LPS stimulation, 307
Lymphocyte, 218
Lysine deficiency, 218

Malondialdehyde, 239
Mantle tissue, 264
Marfan syndrome, 417
Marine fish, 292
Marine teleost, 211
Martin, 459
Mass overshoot, 459
Meleagris gallopavo, 184
Metabolic hormone, 85
Metabolic rate, 353, 368
Metabolism, 35, 125, 347, 353, 467
Metal transporter, 292
Metals, 292
Methimazole, 35
Methyl farnesoate, 67
Microfibrils, 417
Midgut, 24
MIH, 155
Milkfish, 406
MIP, 269
Mitchondria, 12
Modulus, 417
Motif, 307
mRNA, 133
mRNA expression, 193
Muscle, 228
Muscle contraction, 234
Muscle force, 389
Muscle power, 389
Muscle strain, 389
Muscle work, 389
Myocardial contractility, 326

Na^+/K^+-ATPase, 406
Natriuretic peptide receptor B, 193
Necrotizing enteritis, 211
Nereididae, 55
Nestling development, 459
Nestlings, 50
β-NHE, 162
Nile tilapia, 307
NMDA receptors, 332
Non-lactating cow, 97
Norepinephrine, 254
Normal starch, 89
Notomys alexis, 193
Novel protein, 85

Offspring quality, 62
Oncorhynchus mykiss, 162, 512
Ontogeny, 332
Oogenesis, 55
Opsanus beta, 447
Osmolality, 361
Osmoregulation, 67, 211, 447, 521
Osmotic stress, 67
Ovary, 246, 340
Oxidative stress, 429
Oxygen consumption, 142, 353
Oxygen consumption rate, 315
Oxygen equilibrium curve, 173

Paralicthys dentatus, 211
Paraventricular nuclei, 202
Parus major, 50
Parvalbumin, 228
PCR, 307
PDH, 155
Pearl oyster, 264
PEP/ET ratio, 326
Performance, 389
pH, 368, 477
Photoperiod, 202

Physiology, 467
Pigeon, 103
Pigmentation, 125
Pinctada, 264
Plasma, 149
Plasma protein, 62
Pogona barbata, 173
Pollock, 467
Polychaetes, 55
Prawn, 254
Pressure acclimatization, 234
Procavia capensis, 42
Proline, 279
Protein intake, 467
Protein synthesis costs, 315
Protein synthesis rate, 315
Protopteridae, 142

Quiescence, 12

Rainbow trout, 125, 162, 512
Reactive oxygen species, 12
Real-time PCR, 246
Rectum, 269
Red muscle, 234
Redox state, 492
Rehydration, 502
Reproduction, 55, 155
Reptile, 85, 340
Reptilia, 506
Respiration, 142, 332
Respiratory quotient, 382
Retention time, 502
Retinol, 149
RNA concentration, 315
RNA synthesis rate, 315
RNA translational efficiency, 315
Rock hyrax, 42

Salinity, 67, 447
Saliva, 502
Scincidae, 506
Sea bass, 375
Seasonal adaptation, 173
Selected body temperature, 118
Selenium, 149
Serotonin, 24
Sex influence, 234
Sexual selection, 78
Short-circuit current, 24
Shrimp, 246
Silver eel, 234
Silver trevally, 347
Skin colour, 78
Sled dogs, 429
Social stress, 162
Sparus auratus, 375
Spawning migration, 234
Specific growth rate, 315
Sperm motility, 361
Sprint speed, 118
Starvation, 279
Strain difference, 382
Stress resistance, 12
Stress response, 435
Sturgeon, 521
Suction feeding, 389
Summer, 42
Superoxide dismutase, 239
Superoxide scavenger activity, 239
Swallow, 459
System y^+, 218
Systolic time intervals, 326

Tail autotomy, 506
Teleost, 332, 361
Teleost fish, 228, 292
Temperate fish, 492
Temperature, 228, 279
Temperature effects, 173
Thermal acclimation, 435
Thermal tolerance, 118
Thermoregulation, 78
Thrombospondin, 246
Thyroid, 35
Thyroid hormones, 35
Time-course, 406
Toad, 353
Toadfish, 447
Total protein synthesis energy expenditure, 315
Trace metals, 353
Transcriptional-level regulation, 435
Transepithelial conductance, 24

Uric acid, 429

Venom, 85
Ventilation, 368
Viscoelasticity, 417
Visual signals, 78
Vitamin E, 149
Vitellogenesis-inhibiting hormone, 246
Vitellogenin, 55

Water absorption, 502
Water deprivation, 193, 202
Waxy starch, 89
Wild population, 50
Wild turkey, 184
Winter, 42
Wound healing, 264

Yonath–Civan plot, 24

AUTHOR INDEX

Vol. 143A, Nos. 1–4

Abele, D., 492
Acosta-Salmón, H., 264
Aida, K., 246
Akar, S., 239
Akcay, F., 239
Appel, A.G., 353
Ardia, D.R., 62

Baldwin, J., 347
Bańbura, J., 50
Bańbura, M., 50
Beard, L.A., 173
Bennett, A.F., 368
Black, B.L., 184
Booth, D.T., 173
Borst, D.W., 67
Bouchereau, A., 279
Breves, J.P., 211
Britton, A., 486
Brown, K.J., 42
Brown, M.F., 12
Bury, N.R., 292
Bussiere, C.T., 417
Buyse, J., 400

Calvert, C.C., 218
Canario, A.V.M., 375
Carroll, A.M., 389
Castellini, M.A., 467
Chapman, L.J., 142
Chaturvedi, C.M., 202
Chen, C.N., 406
Chen, S.M., 254
Christel, C.M., 85
Chung, J.-K., 307
Cooper, C.A., 292

Dane, S., 239
Davies, S.J., 125
Decuypere, E., 400
Delettre, Y.R., 279
Demircan, B., 239
DeMont, M.E., 417
DeNardo, D.F., 85
Dinis, M.T., 375
Donald, J.A., 193
Downs, C.T., 42
Duffy, L.K., 429
Dunlap, K.L., 429

Echevarría, M., 269
Enes, P., 89
Erickson, J.R., 228
Evans, L., 477
Ewen, J.G., 149

Fariñas, F., 78
Findlay, M.M., 286
Fotedar, S., 477
Foye, O.T., 184
Furuse, M., 112, 382

García-Alonso, J., 55
Gilmour, K.M., 162
Glomski, K., 67
Greenaway, J., 512
Grigg, G.C., 173
Grosell, M., 292, 447, 521
Guillette Jr., L.J., 340
Gul, M., 239
Gumustekin, K., 239

Haarmeyer, P., 502
Hahnel, A., 512
Hamilton, A.M., 133
Harnadi, L., 361
Hartzler, L.K., 368
Hedrick, M.S., 103
Heikkila, J.J., 133
Heimeier, R.A., 193
Heise, K., 492
Hervant, F., 279
Hicks, J.W., 368
Hodate, K., 97
Hoeger, U., 55
Hofmann, G.E., 435
Hong, S.H., 307
Hsieh, S.L., 254
Humphrey, B.D., 218

Iguchi, T., 340
Ilundáin, A.A., 269
Itoh, F., 97

Jeong, H.D., 307
Ji, X., 118, 506
Jiao, H.C., 400
Jones, B., 477
Jun, L.J., 307

Kaliński, A., 50
Karadas, F., 149
Katsu, Y., 340
Kaushik, S., 89
Kawazoe, I., 246
Kharin, S.N., 326
Kim, K.H., 307
Kim, Y.K., 246
Klasing, K.C., 218
Kohno, S., 340
Komatsu, T., 97
Kuo, C.M., 254
Kushibiki, S., 97

Leatherland, J., 512
Lechner-Doll, M., 502
Lee, D.-S., 307
Lee, H.-J., 307
Lee, T.H., 406
Li, M., 512
Lill, A., 459
Lin, H., 400
Lin, Y.M., 406
Lin, Z.-H., 506
Lovell, J.M., 286
Lovett, D.L., 67
Lucassen, M., 492
Lucitti, J.L., 103
Lund, S.G., 435

Martarini, D., 361
McDonald, M.D., 447
McMurtry, J.P., 35
Mendonça, M.T., 353
Merchant, M., 486
Moerland, T.S., 228
Moffett, D.F., 24
Moffett, S.B., 24
Morita, M., 361
Munns, S.L., 368
Muñoz-Cabello, A.M., 269
Myburgh, J., 340

Nadolski, J., 50
Nedwell, J.R., 286
Negro, J.J., 78
Nikinmaa, M., 492

doi:10.1016/S1095-6433(06)00155-3

Oikawa, D., 112
Okumura, T., 246
Okuno, M., 361
Oliva-Teles, A., 89
Onken, H., 24
Ottema, C., 315
Oztasan, N., 239

Page, G.I., 125
Panserat, S., 89
Pappas, A.C., 149
Pegg, M.A., 286
Petrik, J., 512
Polat, M.F., 239
Pörtner, H.-O., 492
Power, D.M., 375
Puntarulo, S., 492

Qu, Y.-F., 506

Ragg, N.L.C., 299
Raine, J., 512
Ramírez-Lorca, R., 269
Reardon, D.R., 211
Relbscher, N., 55
Renault, D., 279
Reynolds, A.J., 429
Ricart, T.M., 67
Rosebrough, R.W., 35
Rossignol, O., 234
Rotllant, J., 375
Ruane, N.M., 375
Ruberté, M.R., 435
Russell, B.A., 35

Sarasola, J.H., 78
Sato, M., 112, 382
Schell, D.M., 467
Schwerte, T., 332
Sebert, P., 234
Seifert, A.W., 142
Setyo, B.P., 361
Shen, I.D., 406
Shmakov, D.N., 326
Siktar, E., 239
Simmons, P., 459
Simon, B., 234
Singh, S., 202
Skwarska, J., 50
Smith, R.W., 315
Śniegula, R., 50
Southgate, P.C., 264
Specker, J.L., 211
Stawski, C.Y., 173
Stephensen, C.B., 218
Stuart, J.A., 12
Sui, S.J., 400
Sundin, L., 332
Surai, P.F., 149
Susilo, E.S., 361
Swan, G.E., 340

Tachibana, T., 112, 382
Takemura, A., 361
Tanner, C.A., 67
Taylor, H.H., 299
Taylor, J.R., 521
Taysi, S., 239
Thomas, J.B., 162
Thorogood, R., 149
Toledo-Aral, J.J., 269
Tsai, S.C., 406
Tsutsui, N., 246
Turesson, J., 332

Unuma, T., 155

Veillette, P.A., 211
Vernon, P., 279
Von Engelhardt, W., 502

Wainwright, P.C., 389
Ward, C.K., 353
Wells, R.M.G., 347
Wright, G.M., 417

Xu, X.-F., 118

Yamano, K., 155, 246
Yang, Y.H., 254
Yoshinaga, T., 406

Zhao, L., 467
Zorrilla, I., 78